

**Multiple Alignment:**

30664188.099	1	MHR L I F V Y T L I C A N F C S C R D T S A T P Q S A S I K A L R N A N L E R D E S N H L T D L Y R R D E T I Q V K G	60
VEGF-E	1	- - M S L F G L L L T S A L A G Q R Q G T Q A E S N L S K F Q F S S N K - - - E Q N G V Q D P Q - H E R I I T V S T	54
30664188.099	61	N G Y V Q S P R F P N S Y P R N L L T W R L H S - Q E N T R I Q L V F D N Q F G L E E A E N D I C R Y D F V E V E D I	119
VEGF-E	55	N G S L H S P R F P H T Y P R N T V L V W R L V A E E N V W I Q L T E D E R F G L E D P E D D I C K Y D F V E V E E P	114
30664188.099	120	S E T S T I I R 3 R W C G H K E V P P R I K S R T N Q I K I T F K S D D Y F V A K F G K I Y V S L E E D F Q P A A A S	179
VEGF-E	115	S D G - - T I L G R W C G S G T W P G K Q I S K G N Q I R I R F V S D E V F P E P G F C I H Y N I V M P - - - - -	165
30664188.099	180	E T N W E S V T S S I S G V S Y N S P S V T D P - T L I A D A L D K K I A E F D T V E D L L K Y F N P E S W Q E D L E N	238
VEGF-E	166	- - - - - Q F T E A V S - - - - - P S V L P P S A L P L D L L N N A I T A F S T L E D L I R V L E P E R W Q L D L E D	214
30664188.099	239	M Y L D T P R Y R G P S Y H D - R K S - K V D L D R L N D D A K R Y S C T P R N I S V N I R E E L K L A N V V F F F R Z	296
VEGF-E	215	L V R P L W Q L L G A F V F R K S R V V D L N L L T E V R L Y S C T P R N P S V S I R E E L K R T D T I F W P G S	274
30664188.099	297	L L V Q R C G G N C G G G T V N W R S C T S N S G K T V K K Y H E V L Q F E P G H I K R R G F A K T M A L V D I Q L D H	356
VEGF-E	275	L L V K R C G G N C A C C L H N C N E E Q E W P S K W T K K Y H E V L Q L R P - - - K T G V R G L H K S L T D V A L E H	331
30664188.099	357	H E R C D C I C S S R P P R (SEQ ID NO:2)	370
VEGF-E	332	H E E C D C V E R G S T G G (SEQ ID NO:28)	345

FIG. 2.

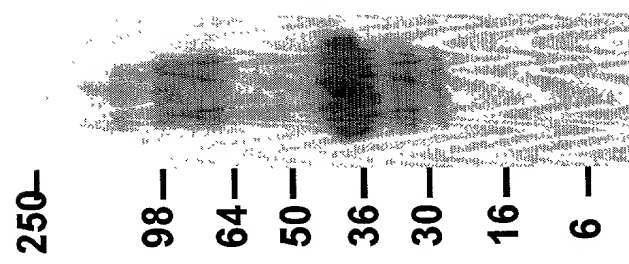


FIG. 3.

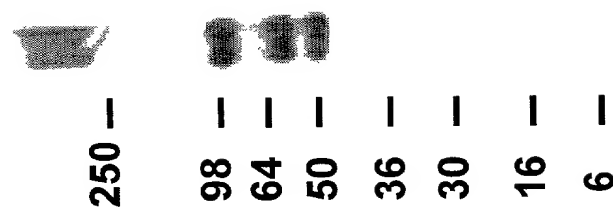
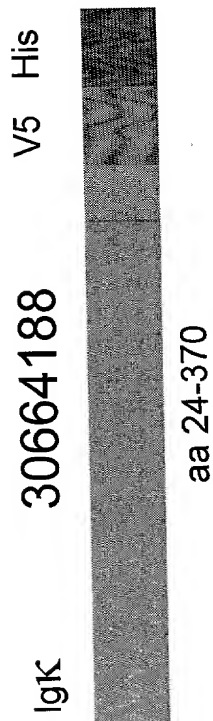


FIG. 4A



293 Transfection

Ni Affinity Chromatography

Imidazole Elution

FIG. 4B

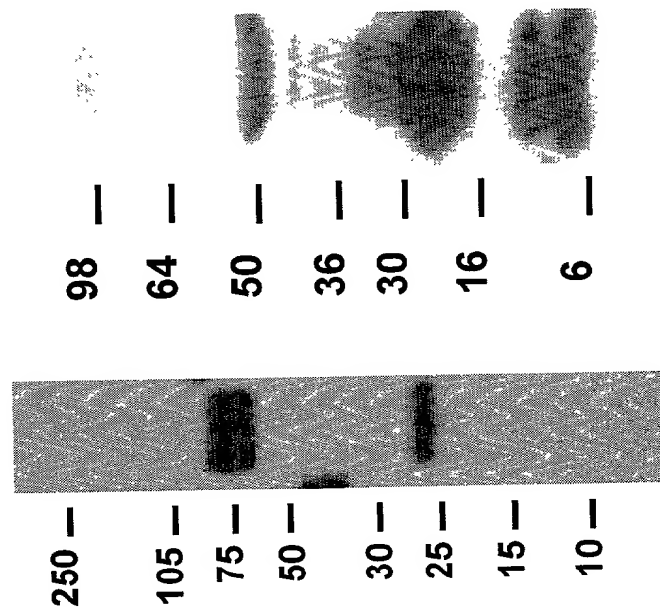


FIG. 5.

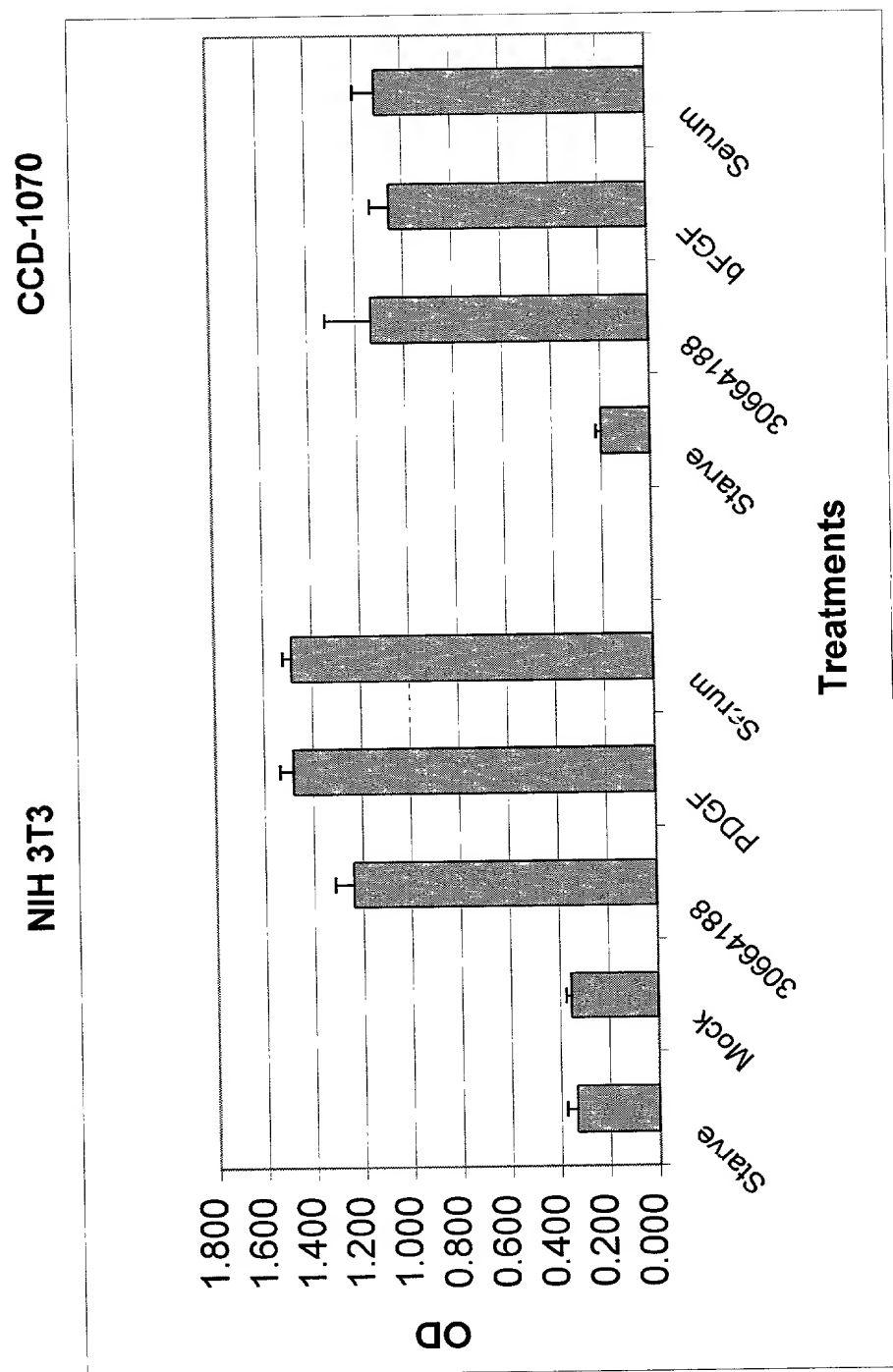


FIG. 6.

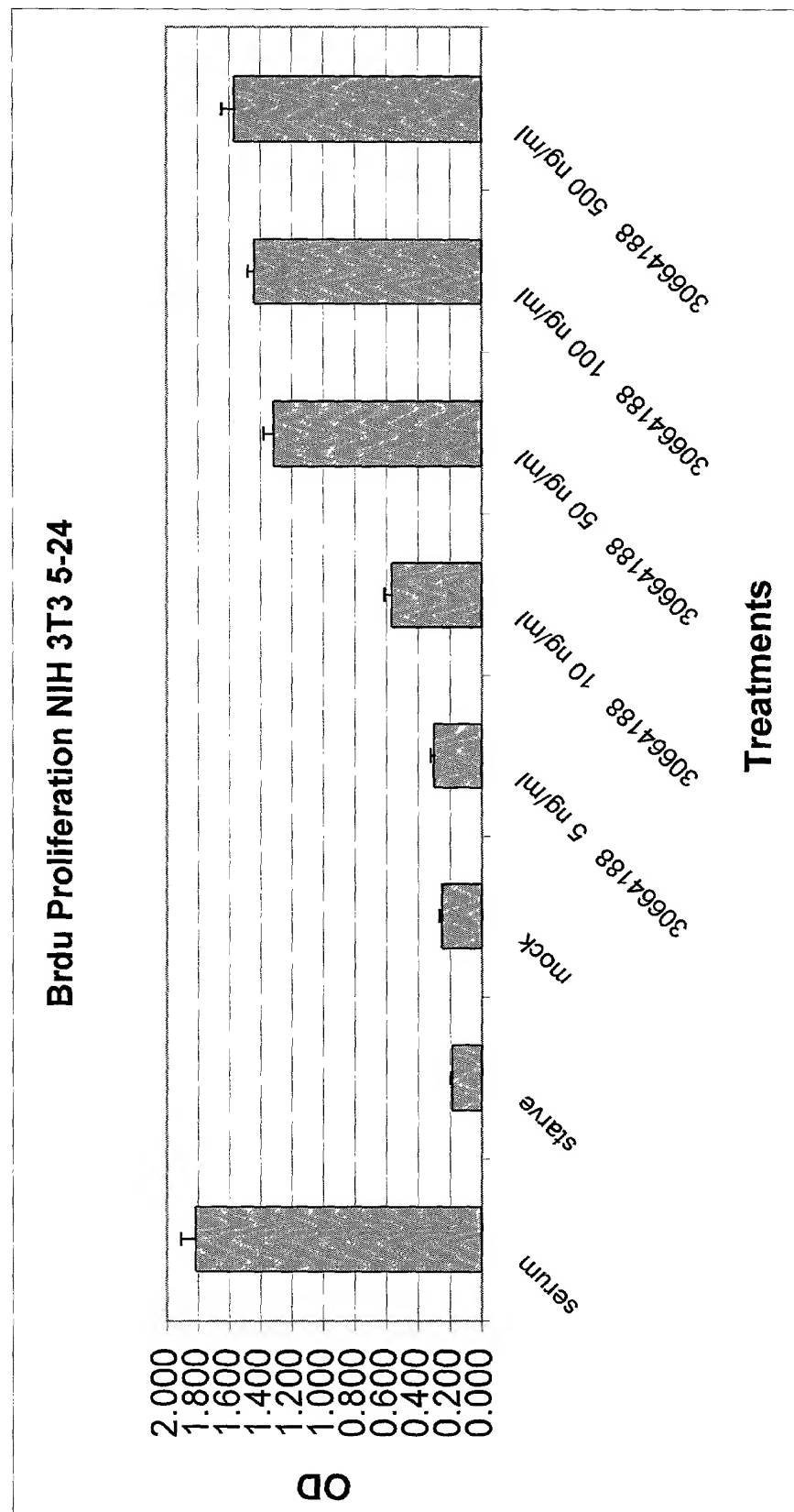


FIG. 7.

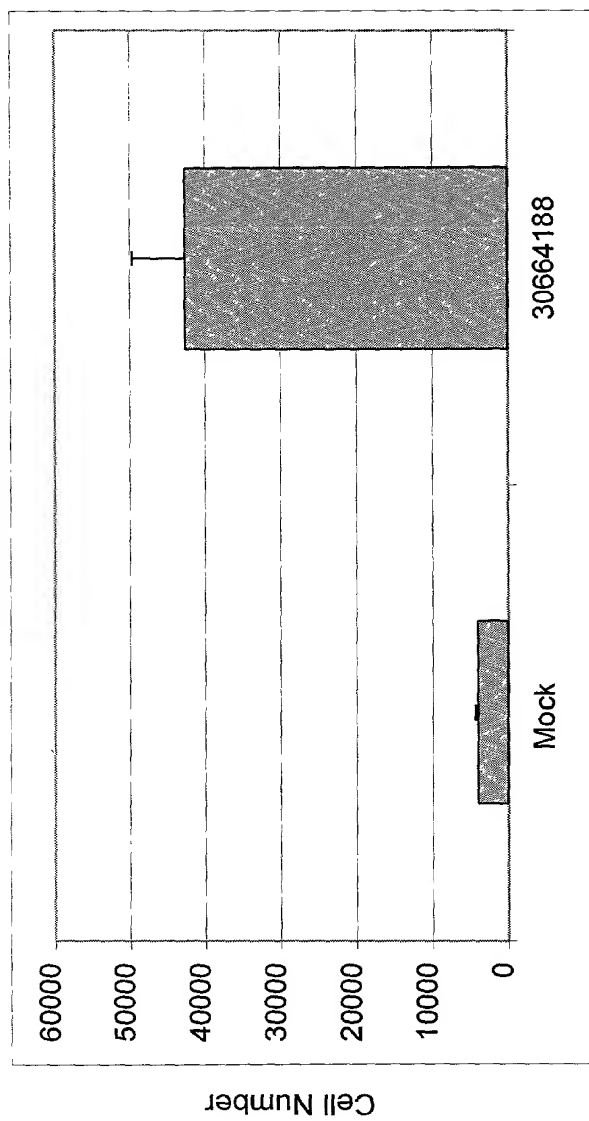


FIG. 8.

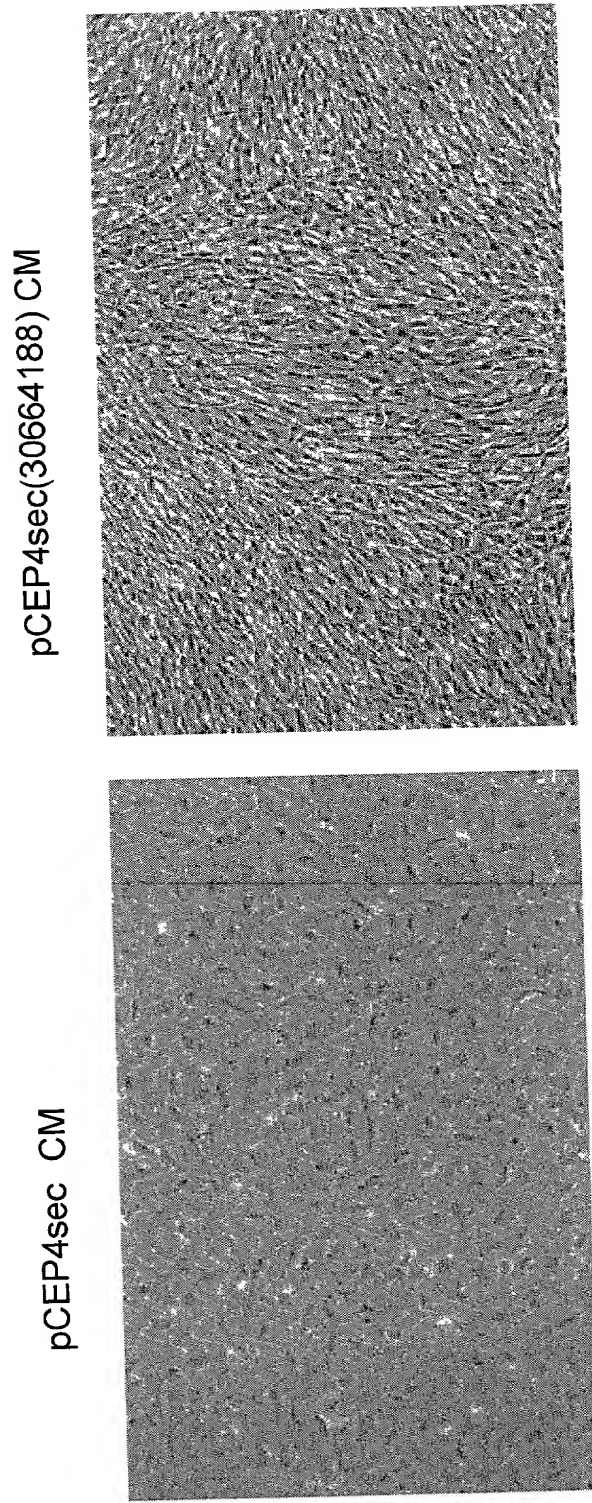


FIG. 9.

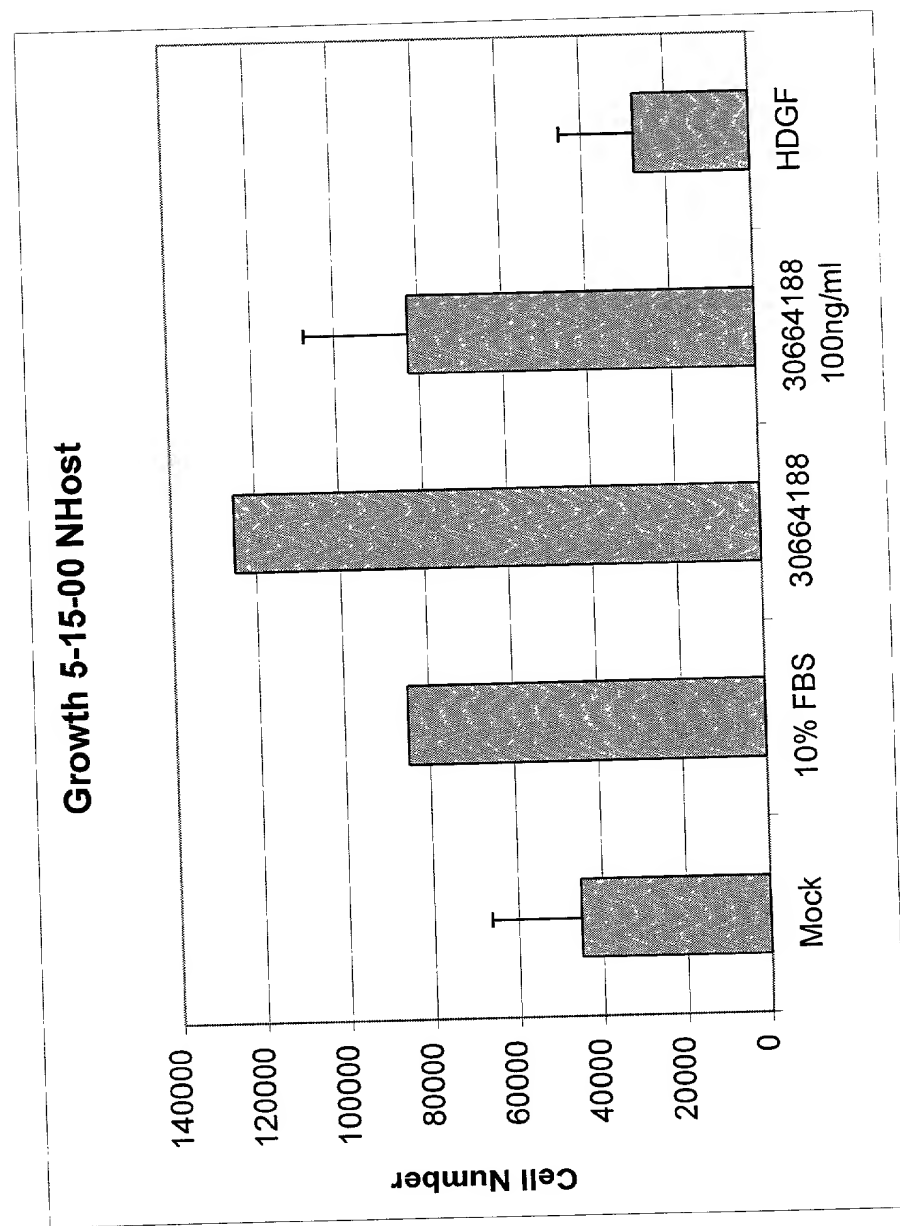




FIG. 10.

FIG. 10A (without serum)

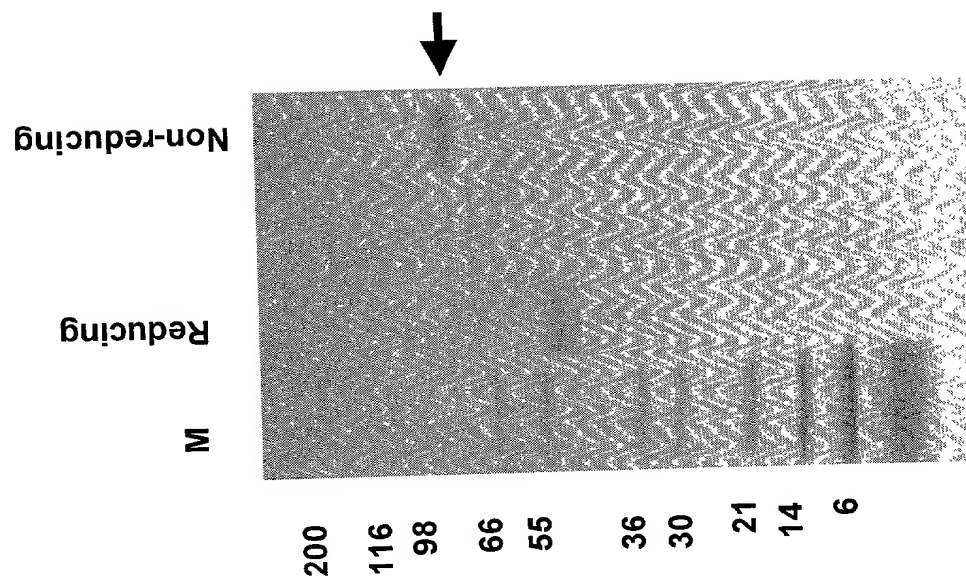


FIG. 10B (with serum)

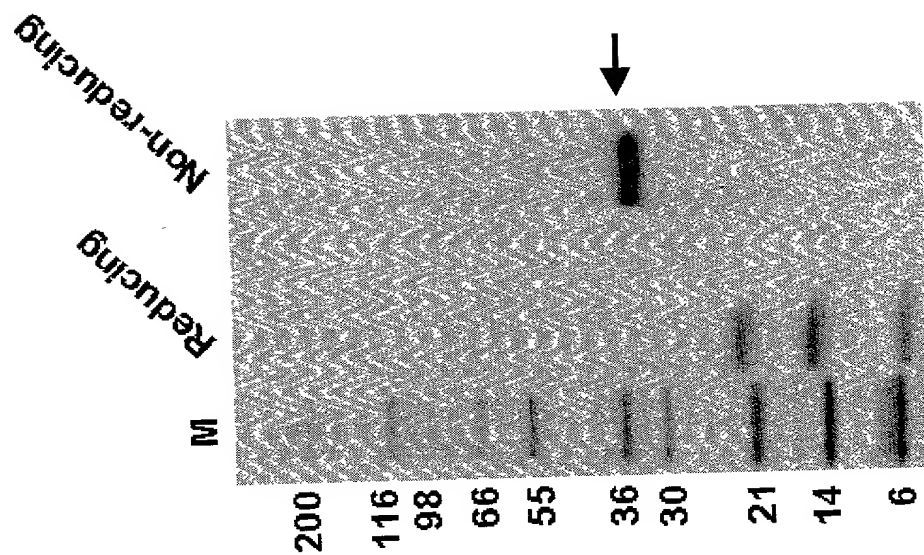
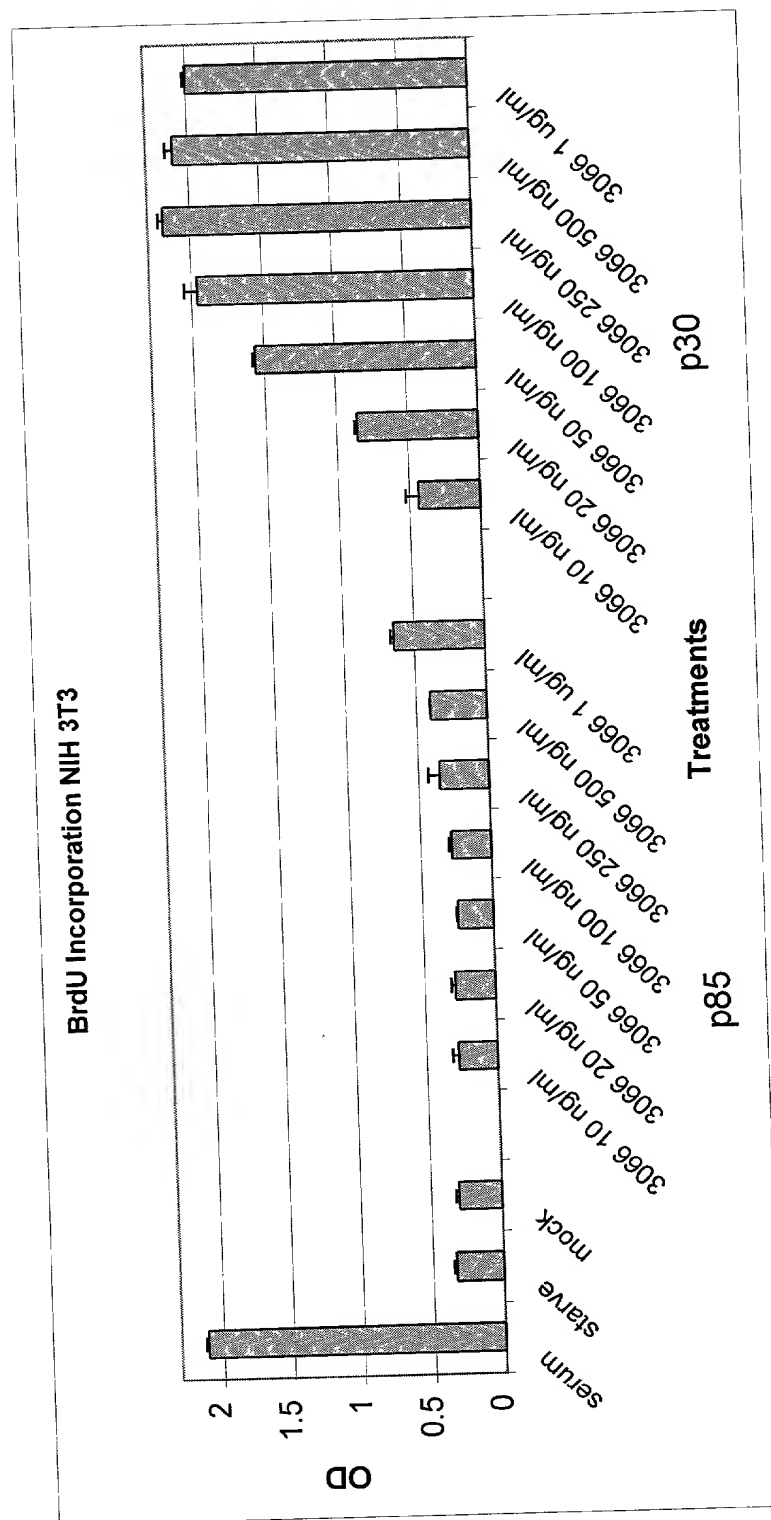


FIG. 11.



Variable	Mean		SD		t		p	
	Control	Case	Control	Case	Control	Case	Control	Case
Age	3.5	3.5	0.5	0.5	0.0	0.0	0.999	0.999
Gender	0.5	0.5	0.5	0.5	0.0	0.0	0.999	0.999
Height	100.0	100.0	10.0	10.0	0.0	0.0	0.999	0.999
Weight	15.0	15.0	2.0	2.0	0.0	0.0	0.999	0.999
Head circumference	45.0	45.0	2.0	2.0	0.0	0.0	0.999	0.999
Brain volume	100.0	100.0	10.0	10.0	0.0	0.0	0.999	0.999
Brain weight	150.0	150.0	20.0	20.0	0.0	0.0	0.999	0.999
Brain density	1.00	1.00	0.05	0.05	0.0	0.0	0.999	0.999
Brain volume/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density	100.0	100.0	10.0	10.0	0.0	0.0	0.999	0.999
Brain weight/density	150.0	150.0	20.0	20.0	0.0	0.0	0.999	0.999
Brain volume/weight/density	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain weight/density/volume	0.67	0.67	0.02	0.02	0.0	0.0	0.999	0.999
Brain volume/density/weight	0.67	0.67	0.02					

11月11日

FIG. 13





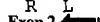

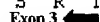





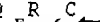

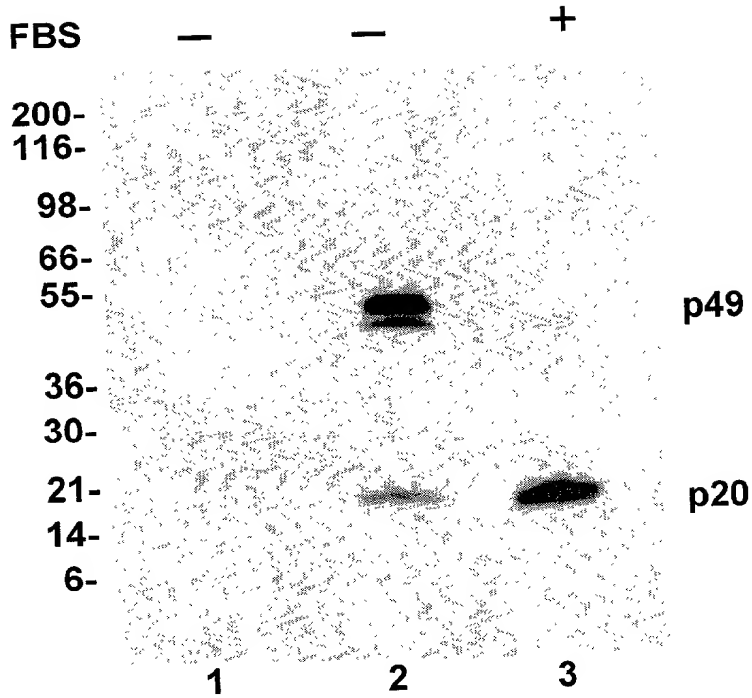
1  Exon 1  
 CGCAGGGCGGCGCGCTCGGTCCCGGGAGCAGAACCCGGCTTTTCTTGGAGCGACGCTGTCTCTAGTCGCTGATCCCA  
 81  ACCGGCTCATCTTTGTCTACACTCTAATCTGCGCAAACTTTTGCAGCTGTGCGGACACTTCTGCAACCCCGCAGA  
 H H R L I F V Y T L I C A N F C S C R D T S A T P Q S  
 161  Exon 1  Exon 2  
 GCGCATCCATCAAAAGCTTTGCGCAACGCCAACCTCAGGCGAGATGAGAGCAATCACCTCACAGACTTGTACCGAAGAGAT  
 A S I K A L R N A N L R R D E S N H L T D L Y R R D  
 241 GAGACCATCCAGGTGAAAGGAAACGGCTACGTGCAGAGTCTTAGATTCCCGAACAGCTACCCAGGAACCTGCTCCTGAC  
 E T I Q V K G N G Y V Q S P R F P N S Y P R N L L L T  
 321 ATGGCGGCTTCACTCTCAGGAGAATACACGGATACAGCTAGTGTGTTGACAATCAGTTTGGATTAGAGGAAGCAGAAAAATG  
 W R L H S Q E N T R I Q L V F D N Q F G L E E A E N D  
 401  Exon 2  Exon 3  
 ATATCTGTAGTATGATTTTGTGGAAGTTGAAGATATATCCGAAACCACTACCATTATTAGAGGACGATGTTGTGGACAC  
 I C R Y D F V E V E D I S E T S T I I R G R W C G H  
 481 AAGGAAGTTCTCCAAAGGATAAAATCAAGAACGAACCAAAATTAATAATCACATTCAAAGTCCGATGACTACTTTGTGGCTAA  
 K E V P P R I K S R T N Q I K I T F K S D D Y F V A K  
 561  Exon 3  Exon 4  
 ACCTGGATTCAAGATTATTATTCTTTGCTGCAAGATTTCACCCCGCAGCAGCTTCAGAGACCAACTGGGAATCTGTCA  
 P G F K I Y Y S L L E D F Q P A A A S E T N W E S V T  
 641  Exon 4  Exon 5  
 CAAGCTCTATTTCAGGGGTATCCTATAACTCTCCATCAGTAACGGATCCCACCTCTGATTGCGGATGCTCTGGACAAAAA  
 S S I S G V S Y N S P S V T D P T L I A D A L D K K  
 721 ATTGCAGAAATTTGATACAGTGAAGATCTGCTCAAGTACTTCAATCCAGAGTCATGGCAAGAAGATCTTGAGAATATGTA  
 I A E F D T V E D L L K Y F N P E S W Q E D L E N M Y  
 801  Exon 5  Exon 6  
 TCTGGACACCCCTCGGTATCGAGGCAGGTACATACCATGACCGGAAGTCAAAAGTTGACCTGGATAGGCTCAATGATGATG  
 L D T P R Y R G R S Y H D R K S K V D L D R L N D D A  
 881 CCAAGCGTTACAGTTGCACTCCAGGAATTACTCGGTCAATATAAGAGAAGAGCTGAAGTTGGCCAATGTGGTCTTCTTT  
 K R Y S C T P R N Y S V N I R E E L K L A N V V F F  
 961 CCACGTTGCCTCCTCGTGCAGCGCTGTGGAGGAAATTGTGGCTGTGGAAGTGTCAACTGGAGGTCTGACATGCAATTC  
 P R C L L V Q R C G G N C G C G T V N W R S C T C N S  
 1041  Exon 6  Exon 7  
 AGGGAAGAACCGTGAAAAAGTATCATGAGGTATTACAGTTTGAGCCTGGCCACATCAAGAGGAGGGGTAGAGCTAAGACCA  
 G K T V K K Y H E V L Q F E P G H I K R R G R A K T M  
 1121 TGGCTCTAGTTGACATCCAGTTGGATCACCATGAACGATGTGATTGTATCTGCAGCTCAAGACCACCTCGATAGAGAAAT  
 A L V D I Q L D H H E R C D C I C S S R P P R (SEQ ID NO:20)  
 1201 GTGCACATCCTTACATTAAGCCTGAAAGAACCTTTAGTTTAAAGAGGGTGAGATAAGAGACCCTTTTCTACCAGCAACC  
 1281 AAACCTTACTACTAGCCTGCAATGCAATGAACACAAAGTGGTTGCTGAGTCTCAGCCTTGCTTTGTTAATGCCATGGCAAGT  
 1361 AGAAAGGTATATCATCAACTTCTATACCTAAGAATATAGGATTGCATTTAATAATAGTGTGTTGAGGTTATATATGCACAA  
 1441 ACACACACAGAAATATATTCTATGTCTATGTGTATATAGATCAAAATGTTTTTTTTTGGTATATATAACCAGGTACACCAGAG  
 1521 CTTACATATGTTTGAGTTAGACTCTTAAAAATCCTTTGCCAAAAATAAGGGATGGTCAAAATATATGAAACATGTCTTTAGAA  
 1601 AATTTAGGAGATAAATTTATTTTTAAATTTTGAACACAAAACAATTTTGAATCTTGCTCTCTTAAAGAAAGCATCTTGT  
 1681 ATATTAATAATCAAAAGATGAGGCTTTCTTACATATACATCTTAGTTG (SEQ ID NO:21)

FIG. 14

**A**



**B**

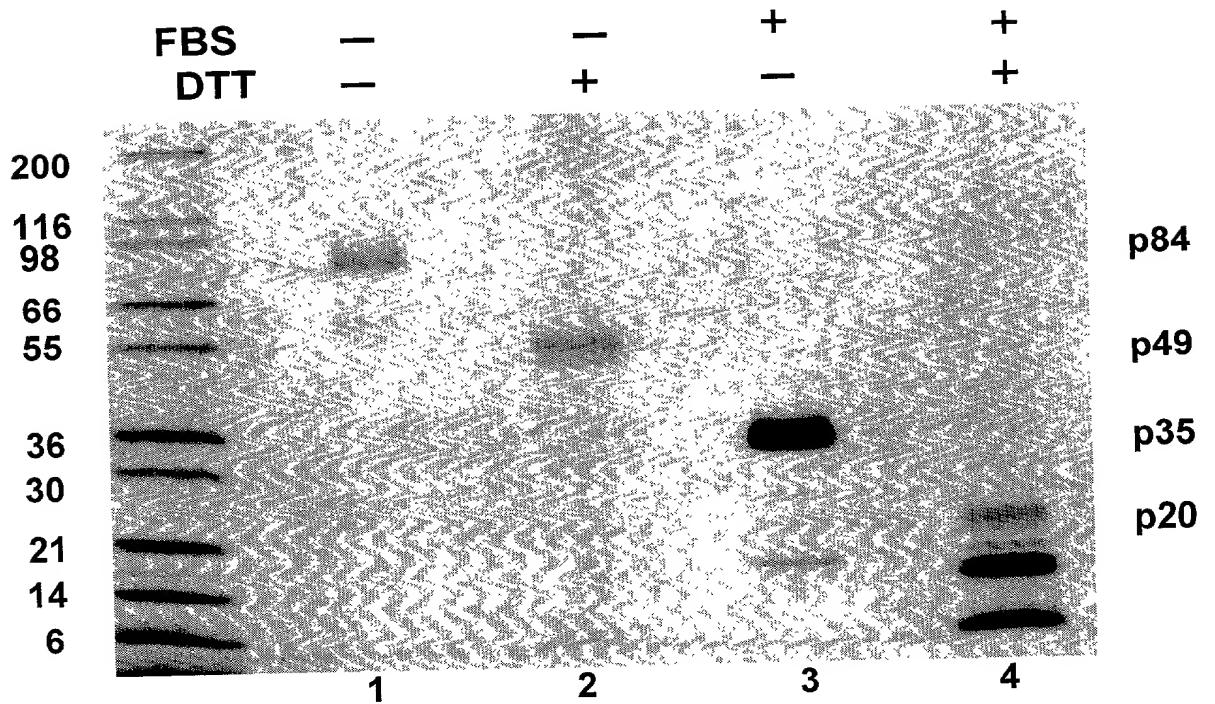
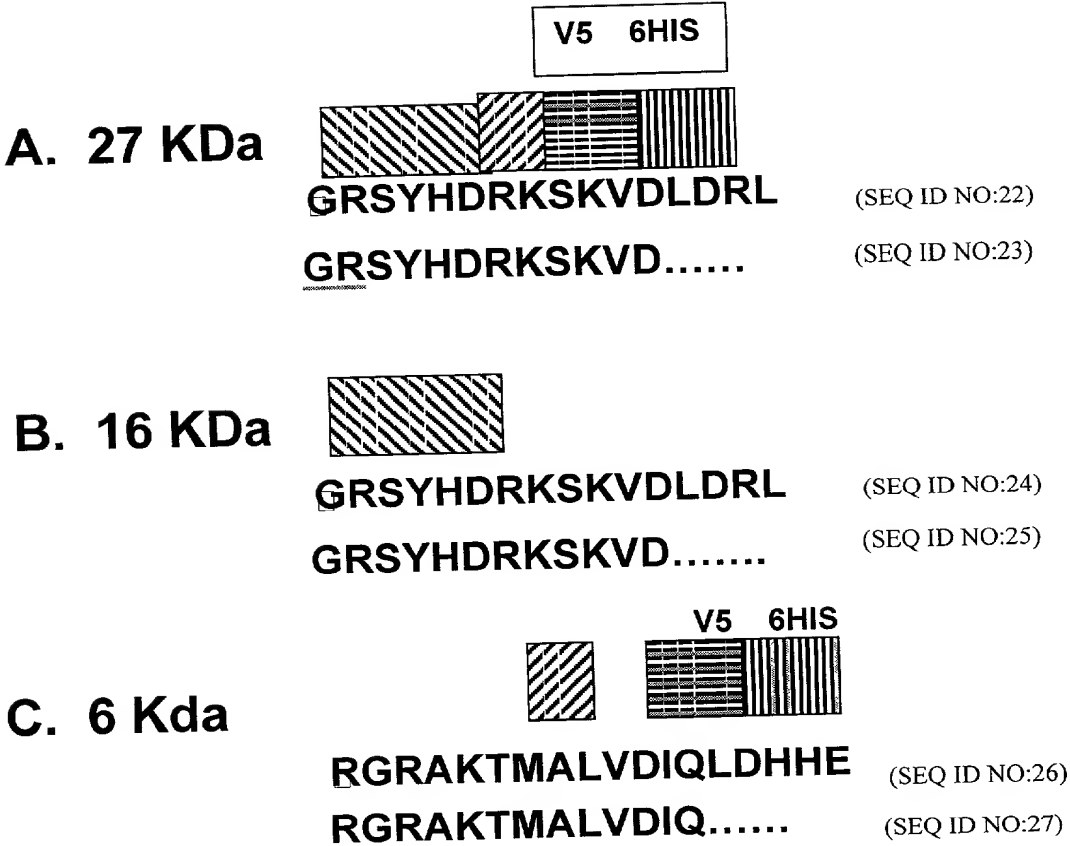
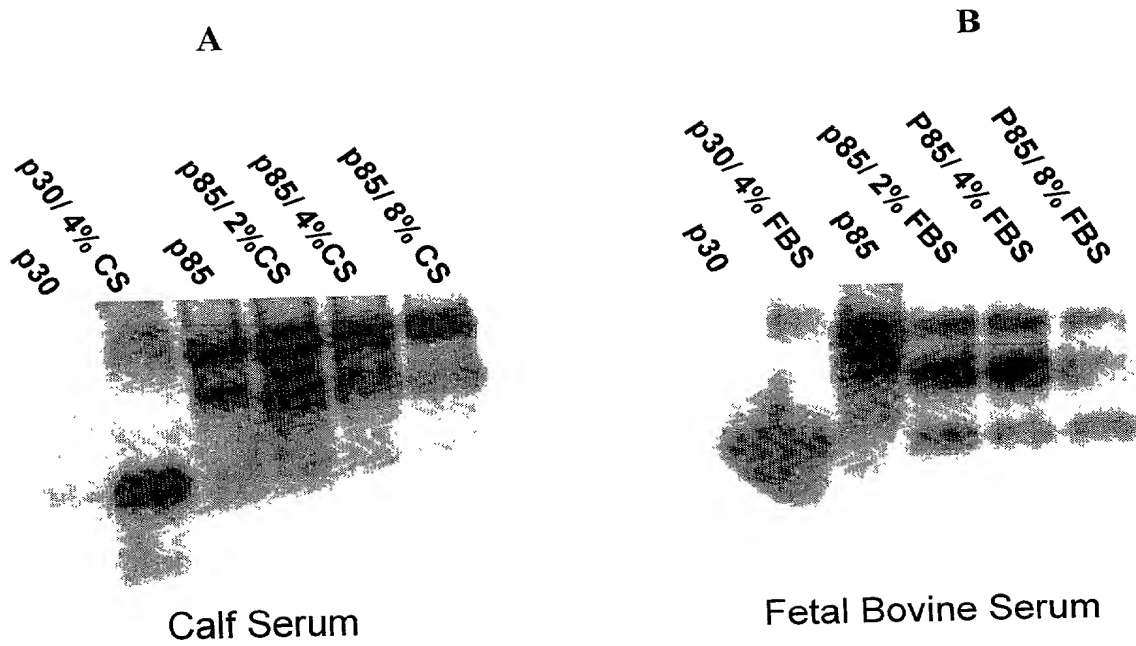


FIG. 15



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FIG. 16



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FIG. 17

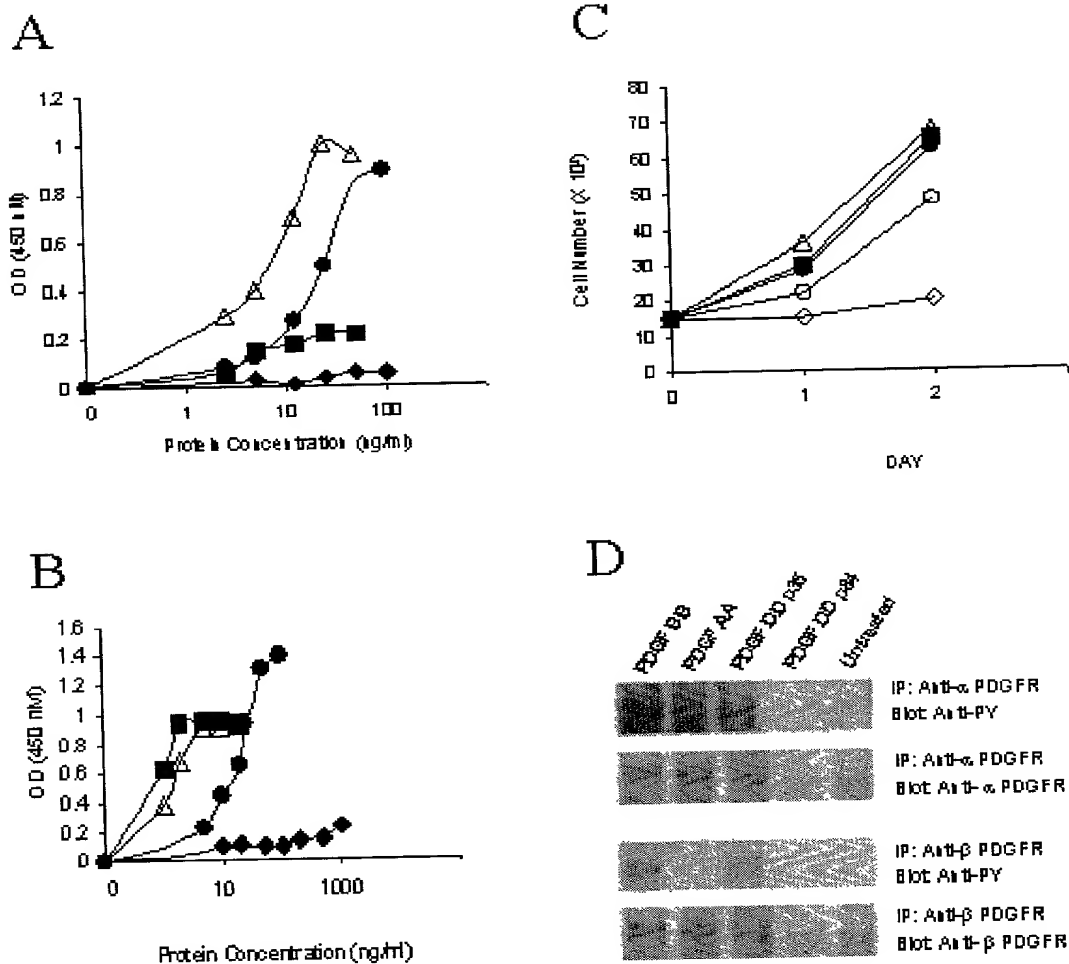
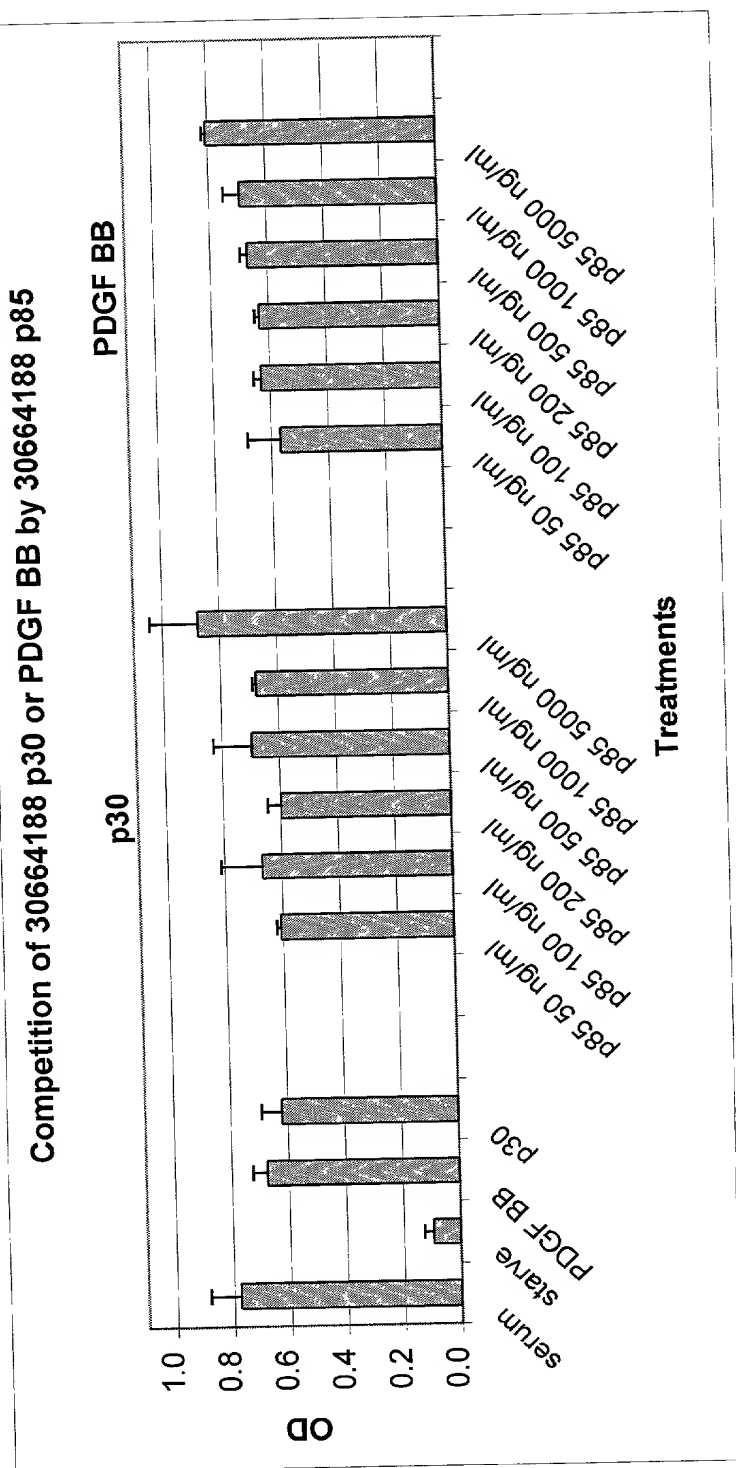




FIG. 18



A

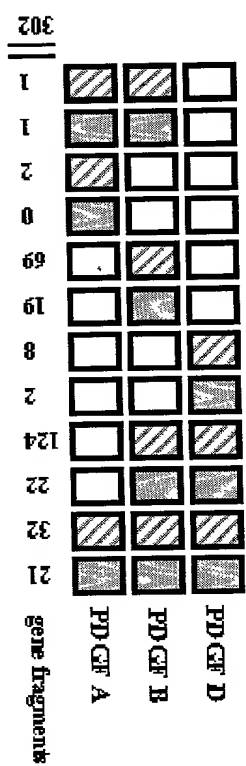


FIG. 19

FIG. 20

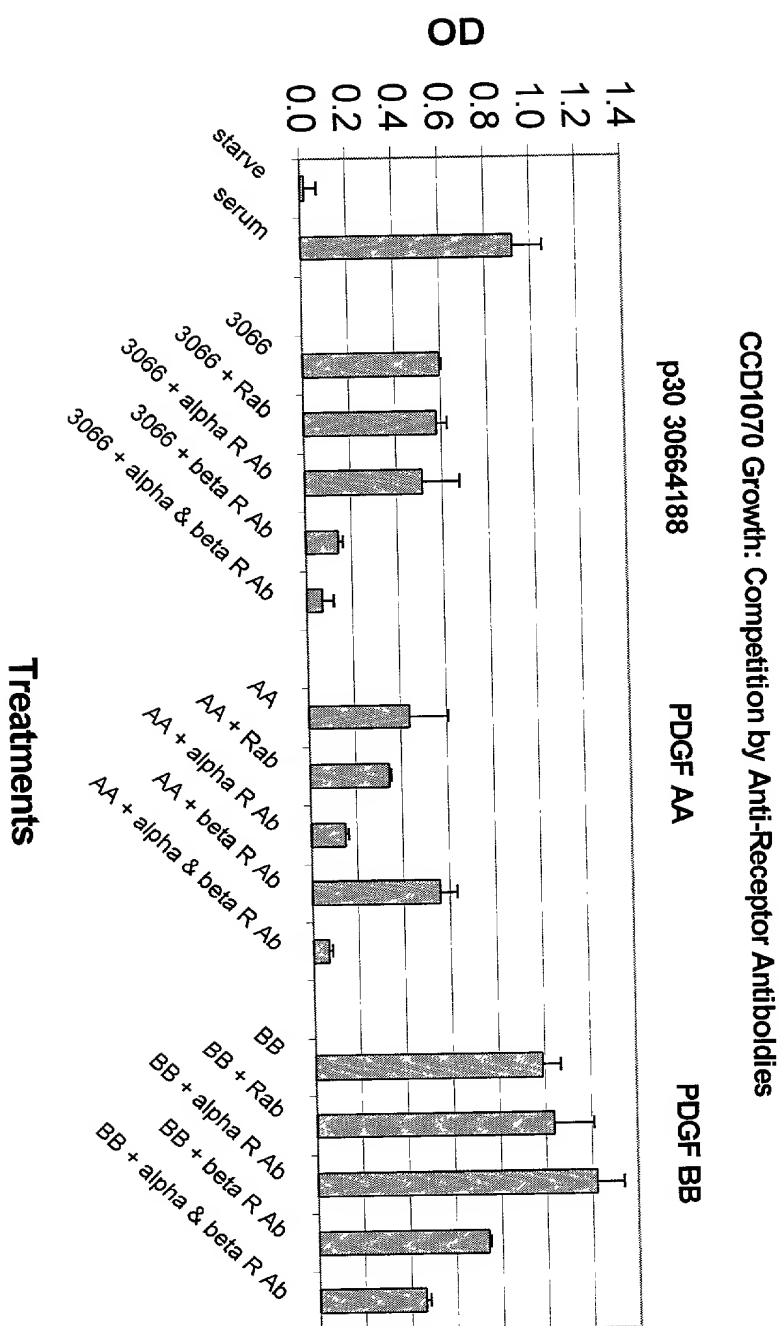


FIG. 21

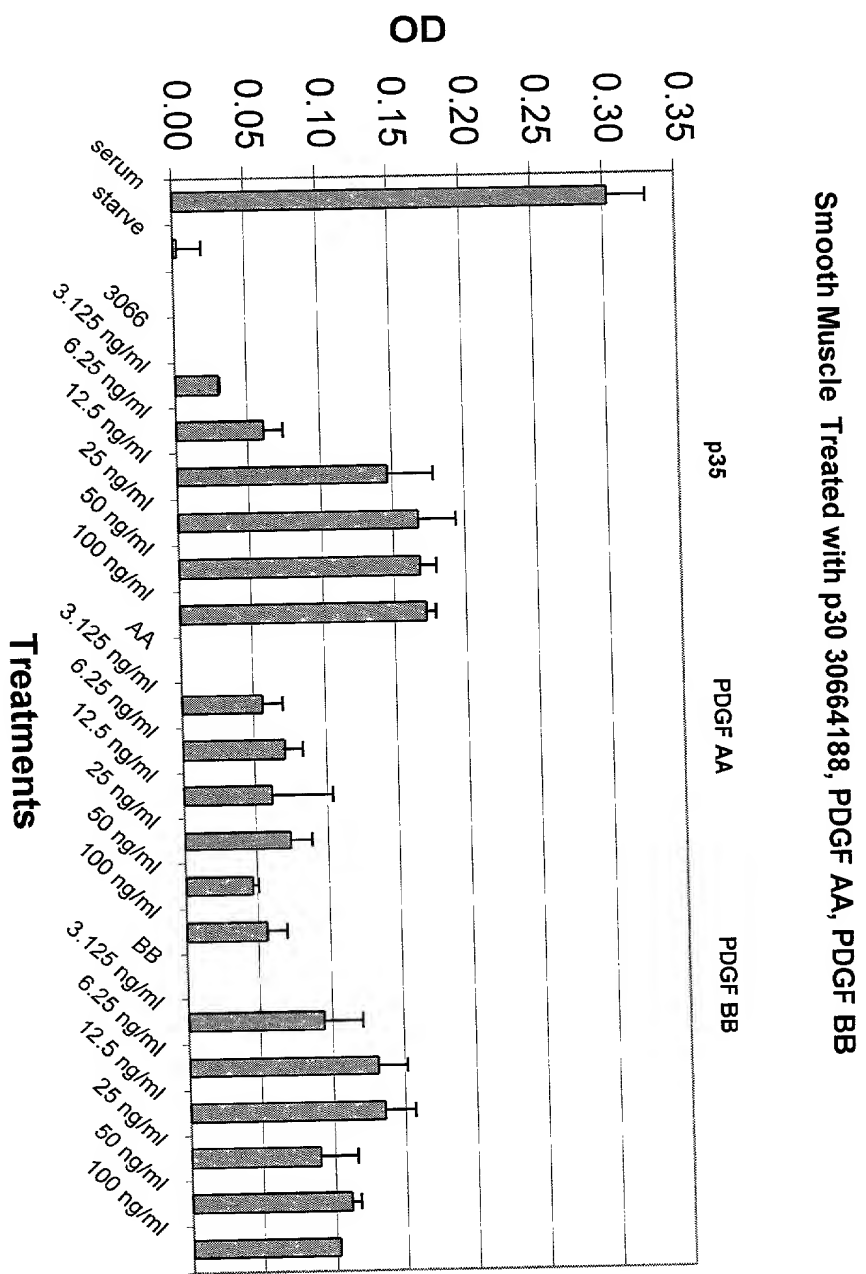
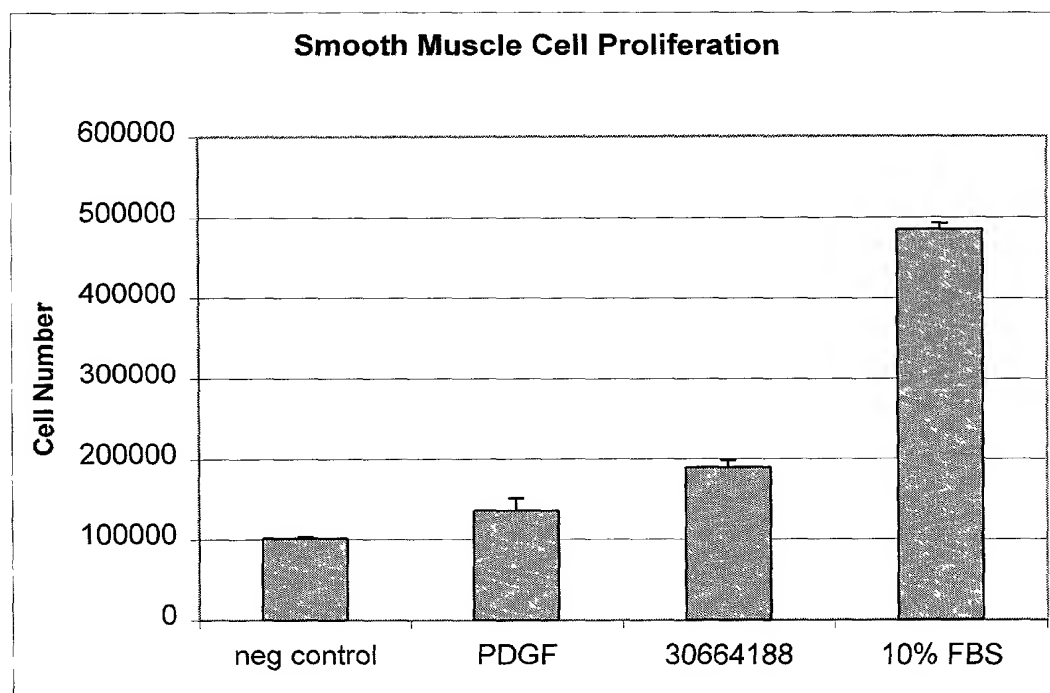


FIG. 22



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FIG. 23

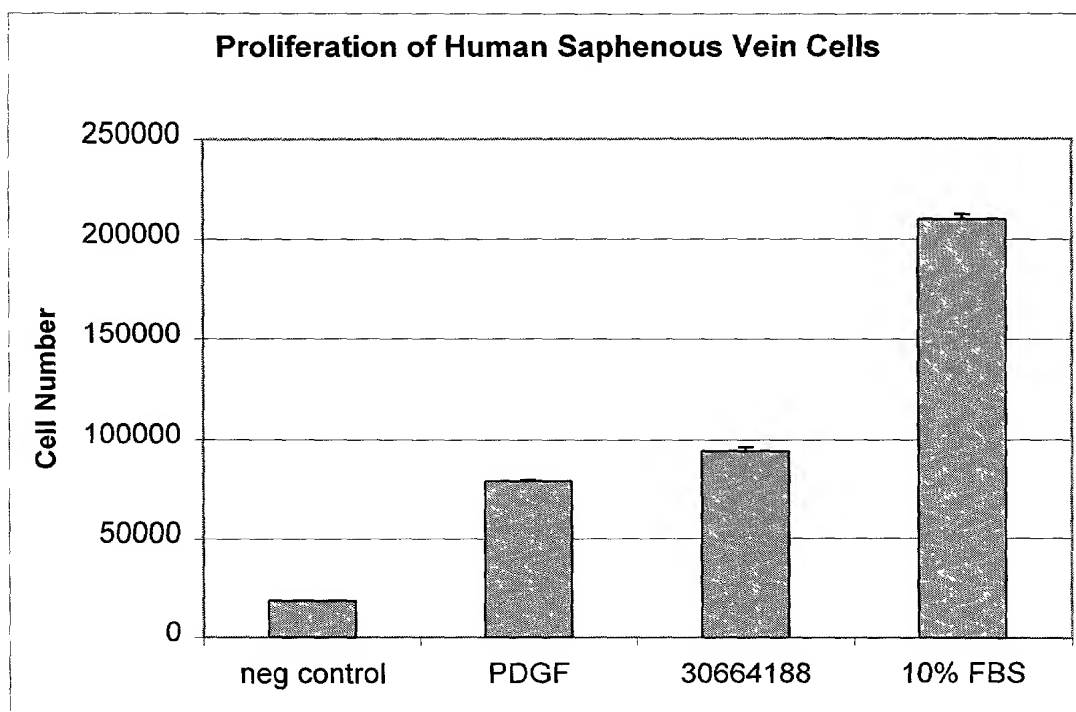


FIG. 24

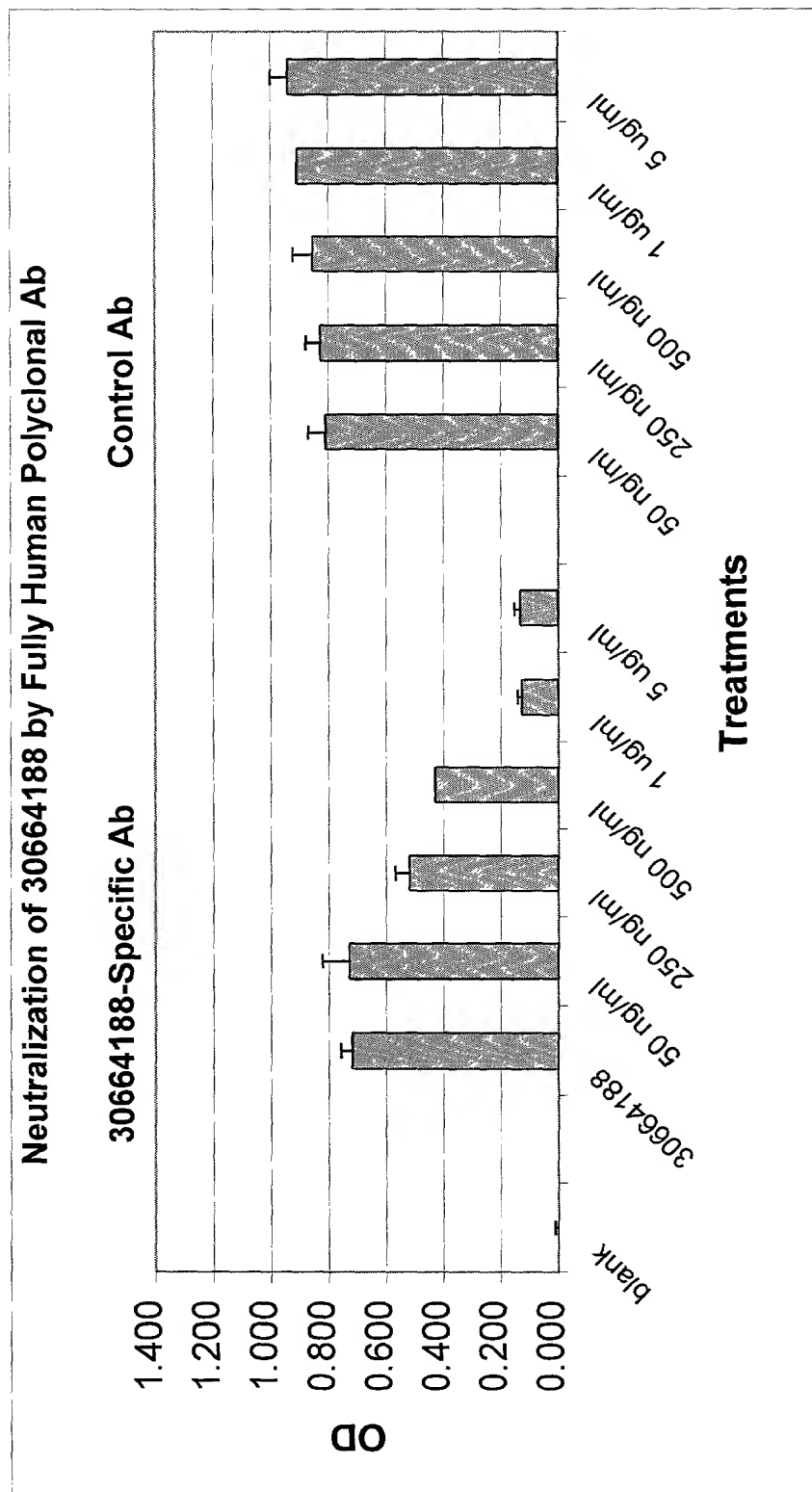


Fig. 25.

Panel A

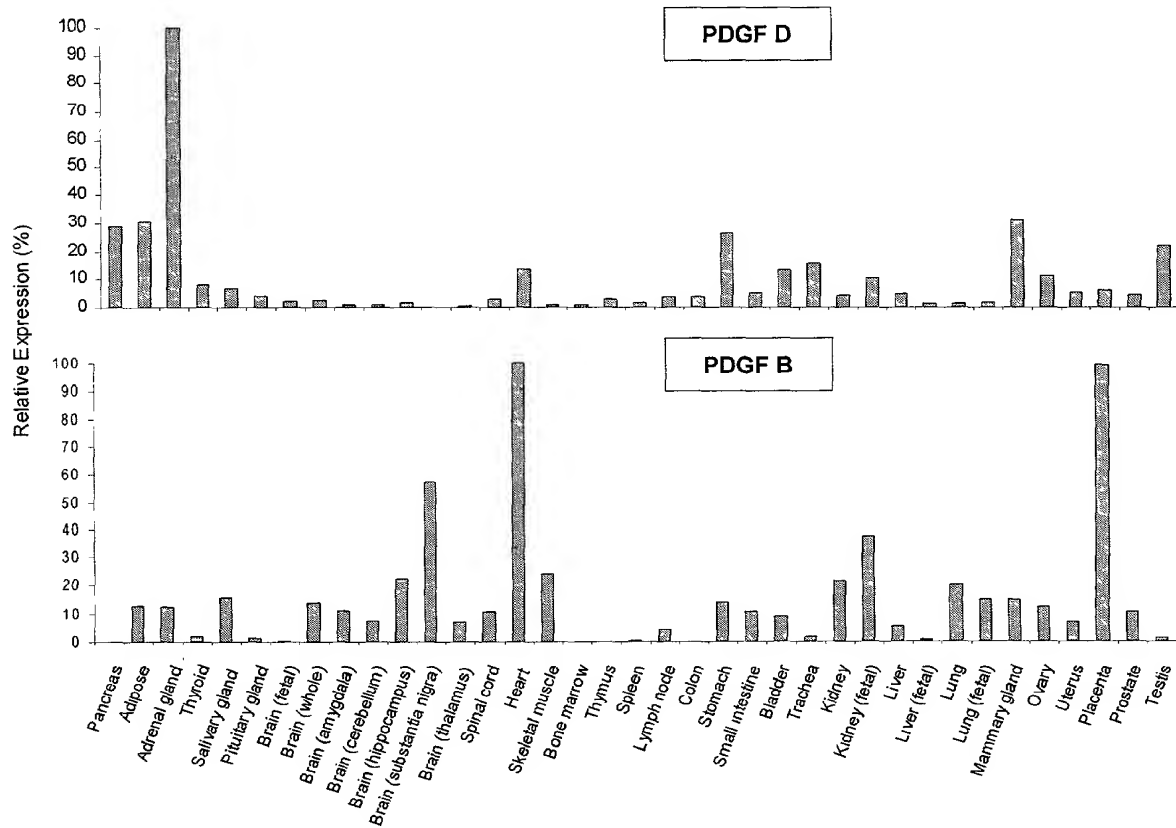




Fig. 25 (cont.)

Panel B

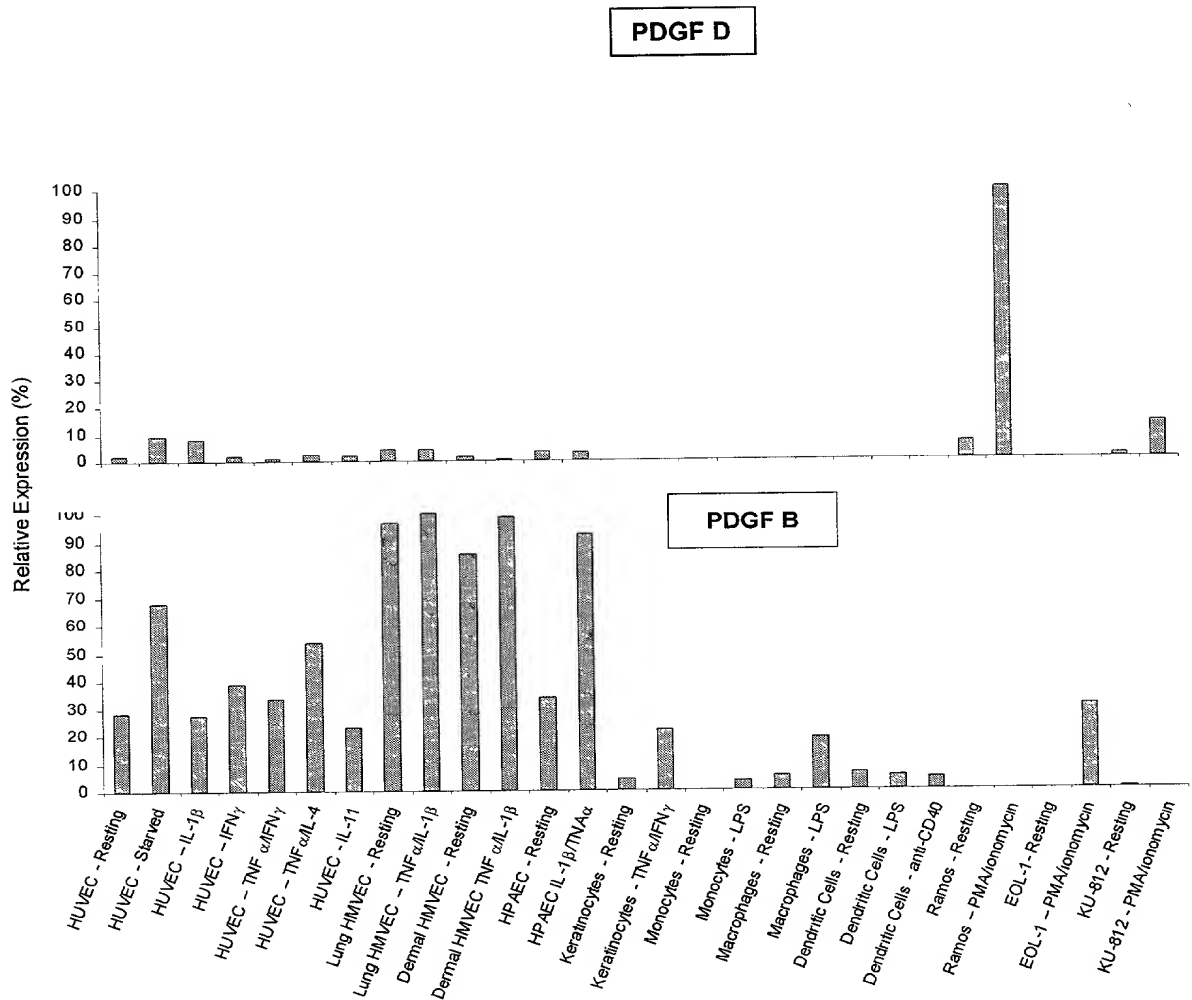


FIG. 26.

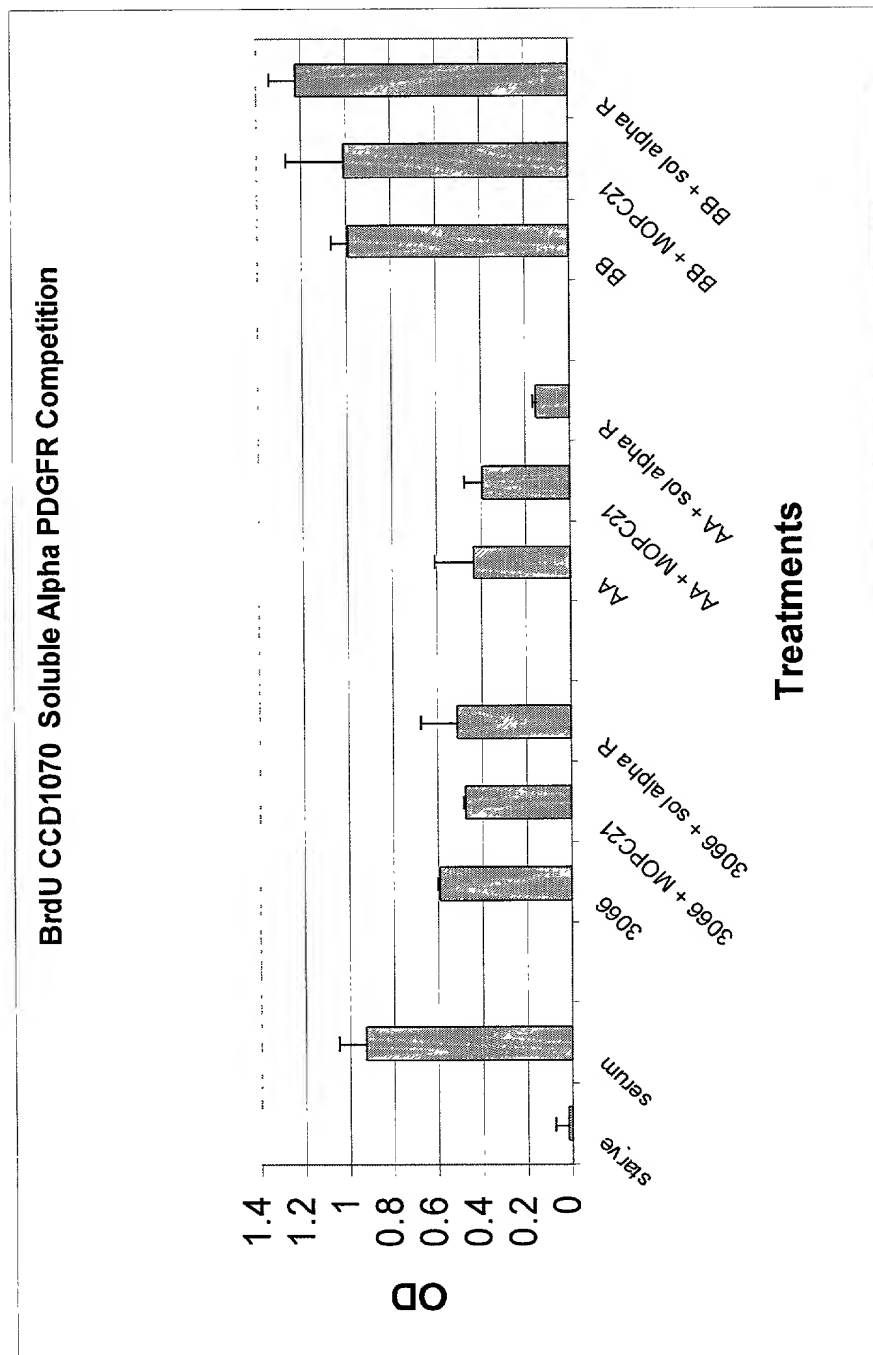


FIG. 27A

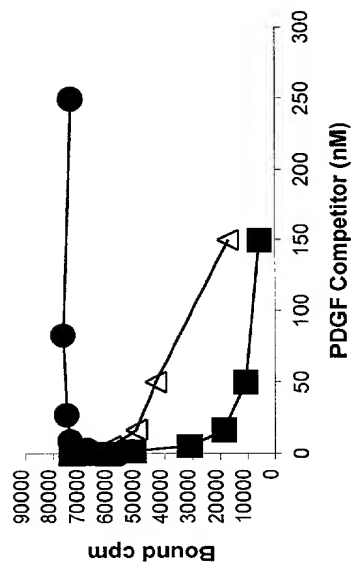
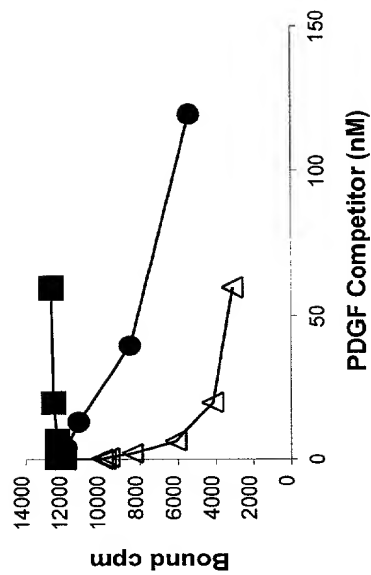


FIG. 27B



**FIG. 28**

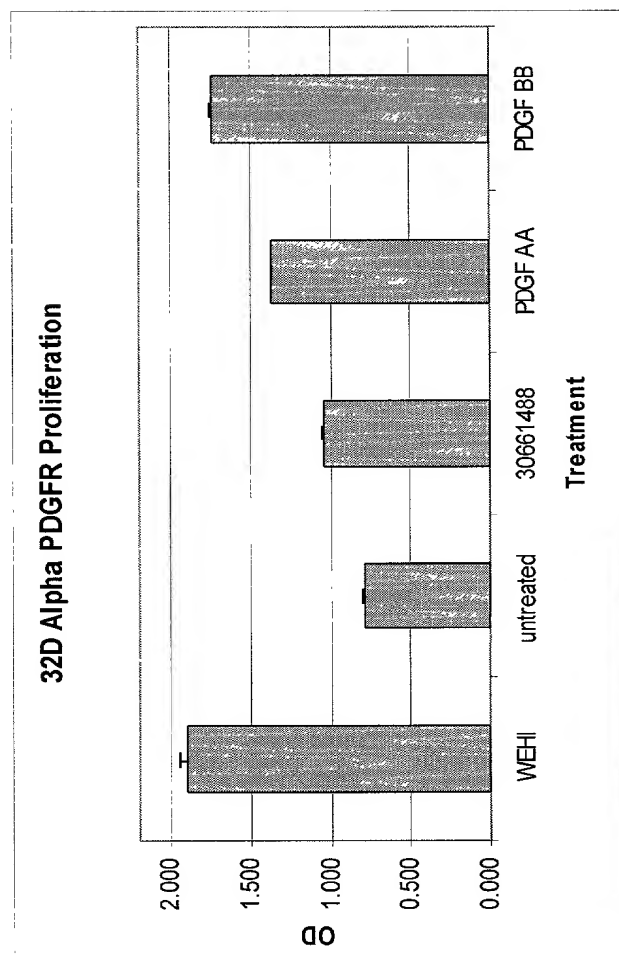


FIG. 29A

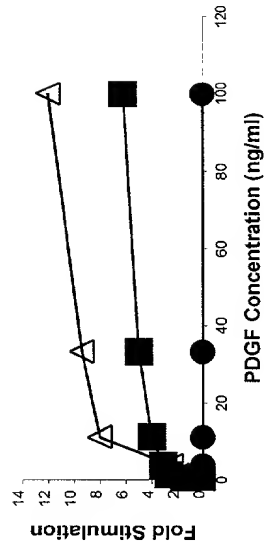


FIG. 29B

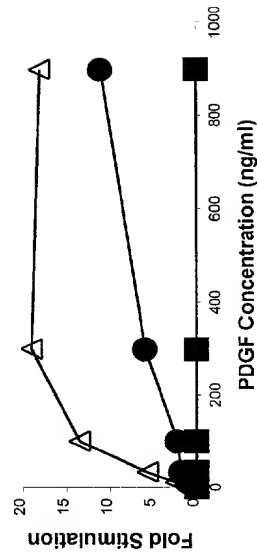


FIG. 29C

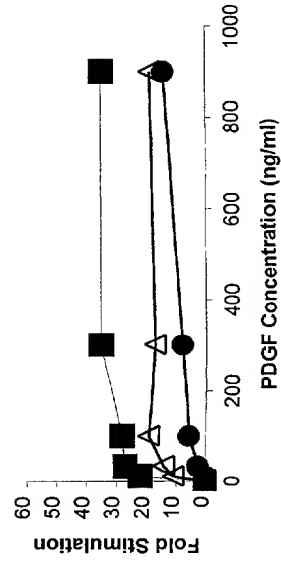


FIG. 29D

